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AT THE AGRICULTURE REPORT NO. 9

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Cotton Fiber and Processing Test Results

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Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 December 19, 1975

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season. These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

Summary of Cotton Fiber and Processing Test Results, Crop of 1974, USDA, AMS, Cotton Division, May 1975.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1975

Discussion of Test Results

The average fiber length of short staple cottons tested from the Southwest through December 12 is longer than a year ago, according to the Cotton Division, Agricultural Marketing Service, USDA. The cottons tested are finer and stronger than a year ago. Picker and card waste is lower. Yarns spun from these samples are stronger and have higher appearance grades. Yarn imperfections are fewer than last season. Average spinning potential yarn number is higher.

Average results for all medium staple samples tested to date show fiber properties to be about the same as a year ago. Picker and card waste is lower. Yarns spun from these samples are stronger, but appearance grades are slightly lower. Yarn imperfections are higher than a year ago. Average spinning potential number is lower.

Medium staple samples tested from the Southeast show fibers to be shorter, finer and stronger at zero gage strength tests than a year ago at this time. Yarns spun from these samples show weaker yarn strength with lower appearance grades. Yarn imperfections are higher than a year ago. Average spinning potential is lower.

Medium staple samples tested from the south central states show coarser and stronger fibers at zero gage strength tests. Picker and card waste is lower. Yarns spun from these samples show a slightly higher imperfection count than a year ago. Average spinning potential is lower.

Southwestern medium staple samples tested to date have finer and weaker fibers at zero gage strength tests. Picker and card waste is lower. Yarns spun from these samples show a higher imperfection count than a year ago.

Medium staple samples tested from the western area show fibers to be slightly longer, finer and slightly stronger than a year ago. Picker and card waste is lower. Yarns spun from these samples are stronger. Appearance grades are lower and imperfections are higher than a year ago.

Average test results for all long staple samples show fibers to be shorter, slightly coarser, and stronger at zero gage tests than last season. Processing tests show higher percentages of picker and card waste and comber waste than a year earlier. Yarns spun from these samples have about the same skein strength as last year but yarn appearance grades are a little higher. Yarn imperfections are higher than a year ago. Average spinning potential number is lower.

Long staple samples from the Southeast are shorter and coarser than a year ago. Zero gage fiber strength is stronger. Manufacturing waste is higher and yarn skein strength is weaker. However, yarn appearance grades are slightly higher than last year.

Long staple samples from the south central area are shorter and stronger at zero gage than a year earlier. Yarns have about the same skein strength as last season but higher appearance grades.

Long staple samples from the West are finer and stronger than last season. Picker and card waste is somewhat higher and so is comber waste. Both carded and combed yarns are stronger while most other yarn characteristics are about the same as last year. Yarn imperfections are higher than last season.

Test results on a limited number of American Pima samples show fibers to be slightly longer with higher mike readings than a year ago. The yarn quality is about the same as last season.

Averages of fiber and processing tests from selected gin points in the United States through December 12, 1975

Table 1.--Cotton:

Lots Fibroguestested 2.5% span No. Inches Span No. Inches 14 0.9% 1.09 34 1.07 26 1.07 26 1.07 26 1.10 216 1.10 216 1.10 216 1.10 216 1.10		Fibrograph 2.5% 50/2.5 ranif. Span unif. Inches Pct. R 0.94 444 1 1.07 444 1 1.10 445 1 1.07 444 1 1.10 445 1	Fibrograph Aike fine- 2.5% 50/2.5 ness span unif. Rdg. O.94	Fibrograph Mike Fiber strength of page and page	Fiber test results Fibrograph Fiber test results 2.5% Fiber strength fine- 2.5% Span Inches Fet. Rdg. Mpsi C/tex 0.94 1.09 4,4 4,1 1.09 4,4 4,1 1.07 4,4 4,1 83 22 1.07 4,4 4,1 83 22 1.07 4,4 4,1 83 22 1.07 4,4 4,2 83 22 1.07 4,4 4,2 83 22 1.07 4,4 4,0 82 22 1.07 4,4 4,0 82 22 1.07 4,4 4,0 82 22 1.07 4,4 4,0 82 22 1.07 4,4 4,0 82 22 1.07 4,4 4,0 82 22 22 1.07 1.08 1.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08 2.08 1.00 2.08 1.00	Fibrograph Mike Fiber strength S.A P.&.C. S.D.	Fibrograph
Fibrol 2.5% span span Inches o.94 0.96 1.09 1.07 1.07 1.07 1.07 1.07 1.10 1.10 1.10	Fiber ograph	Fiber test ograph fine- fo/2.5 ness unif. Rdg. th th th.2 th th.4 th th.2 th th.4 th th.3 th th.4 th th.3 th th.6 th.6 th.6 th.6 th.6 th.7 th.6 th.6 th.7 th.6 th.7 th.6 th.7 th.6 th.7 th.6 th.7 th.7 th.7 th.7 th.8 th.7 th.9 th.7 th.9 th.7 th.9 th.9 th.9 th.9 th.9 th.9 th.9 th.9	Fiber test results ograph fine- 50/2.5 ness gage Pct. Rdg. Mpsi th t.2 87 th t.2 83 th t.1 83 th t.1 85 th t.1 85 th t.1 85 th t.1 85 th t.2 83 th t.2 83 th t.3 84 th t.3 85 th t.3 85	Fiber test results So/2.5 Fiber strength Fiber strength	Fiber test results Ograph unif. Fiber strength fine- Zero 1/8" sage gage S A nonlint gage Fot. Rdg. Mpsi gage Ret. Pct. Rdg. Mpsi gage Ret. th unif. Rdg. Mpsi gage Ret. th unif. Rdg. Mpsi gage Ret. th unif. Rdg. Ret. Ret. th unif. Rdg. Ret. Ret. th unif. Rdg. Ret. Ret. th unif. Rdg. Rdg. Ret. th unif. Rdg. Rdg. Ret. th unif. Rdg. Rdg. Rdg. th unif. R	Fiber test results Ograph Mike unif. Fiber strength gage S A gage gage P & C B C B Gage Pet. Rdg. Mpsi G/tex Pet. Pet. Pet. Rdg. Sgge Sgge Sgge Sgge Sgge Phi h.1 83 22 3.3 6.3 Phi h.2 83 23 3.3 6.3 Phi h.2 82 22 3.4 5.4 Phi h.2 93 26 2.3 5.4 Phi h.2 93 26 2.3 5.5 Phi h.3 86 23 3.0 6.1	Fiber test results
1 4 50/4 1	Fiber Fiber 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fiber test Fiber test Mike fine-	Fiber test results 2.5	Fiber test results Mike Fiber strength fine Zero 1/8" gage gage gage t.	Fiber test results Mike Fiber strength S A	Fiber test results Mike	Harden Fiber strength S.A. P.&.C. Strein Appearation Str.in Str.in Appearation Str.in Appearation Str.in Str.
		## Fiber Fiber Zero gage Mpsi 83 83 85 85 85 85 85 85		22 22 22 22 22 22 22 22 22 23 23 23 23 2	20 3.5 22 3.4 22 3.4 22 3.4 22 3.4 22 3.4 22 3.0 22 3.0 22 3.0 23 3.0 25 2.3 26 2.3 26 2.3 27 2.4 26 2.3 28 3.0 29 2.1 29 3.0 29 2.1 20 2.1 20 2.2 3.0 20 2.3 20 2.3 20 2.3 20 2.3 20 2.3 20 2.3	22 3.4 6.4 2.2 3.8 6.1 2.2 3.0 6.1 2.3 3.0	strength gage S A logs P & C logs Skein ganlity log
test results Processi Mike riber strength less Fiber strength gage S A gage P & C Skein str. dg. Mpsi gage G / tex Pct. Pct. Lbs. t.2 87 20 3.5 7.2 85 t.0 89 22 3.3 6.3 98 t.1 83 22 3.8 6.1 97 t.1 83 22 3.8 6.1 97 t.2 83 22 3.8 6.1 97 t.1 83 22 3.8 6.1 97 t.2 92 22 3.8 6.1 97 t.2 92 22 3.0 6.1 97 t.2 92 22 3.4 5.4 102 t.2 93 26 2.3 5.3 124 t.2 93 26 2.3 5.5 108 t.3 86 23 3.0 <td>S. A. P. & C. Skein str. Pct. Pct. Lbs. 3.5 7.2 85 3.3 6.3 98 3.1 6.4 102 3.8 6.1 97 3.1 6.3 105 3.1 5.5 105 3.0 6.1 100 3.4 5.8 117 2.3 5.3 124 2.3 5.3 124 2.3 5.5 108 3.0 6.1 98 3.0 6.1 98 3.0 6.1 98 3.0 6.1 98 3.0 6.1 98</td> <td>P. & C Skein vaste str. Pct. Ibs. 22s 7.2 85 6.1 100 6.1 100 6.1 100 5.5 105 5.5 106 6.1 98 6.1 98 6.1 98 6.1 98 6.1 98 6.2 108</td> <td>P. & C Skein vaste str. Pct. Ibs. 22s 7.2 85 6.1 100 6.1 100 6.1 100 5.5 105 5.5 106 6.1 98 6.1 98 6.1 98 6.1 98 6.1 98 6.2 108</td> <td>Processing test Yarn qualities Skein Appearation Str. ance Libs. Index 22s Carded 97 97 98 102 100 92 100 92 101 102 103 117 103 124 94 98 </td> <td>ing test from quali Appearance ance Index Carded 97 102 92 92 92 92 92 94</td> <td></td> <td>Spin Spin Spin 61 142 142 142 142 142 142 142 142 142 14</td>	S. A. P. & C. Skein str. Pct. Pct. Lbs. 3.5 7.2 85 3.3 6.3 98 3.1 6.4 102 3.8 6.1 97 3.1 6.3 105 3.1 5.5 105 3.0 6.1 100 3.4 5.8 117 2.3 5.3 124 2.3 5.3 124 2.3 5.5 108 3.0 6.1 98 3.0 6.1 98 3.0 6.1 98 3.0 6.1 98 3.0 6.1 98	P. & C Skein vaste str. Pct. Ibs. 22s 7.2 85 6.1 100 6.1 100 6.1 100 5.5 105 5.5 106 6.1 98 6.1 98 6.1 98 6.1 98 6.1 98 6.2 108	P. & C Skein vaste str. Pct. Ibs. 22s 7.2 85 6.1 100 6.1 100 6.1 100 5.5 105 5.5 106 6.1 98 6.1 98 6.1 98 6.1 98 6.1 98 6.2 108	Processing test Yarn qualities Skein Appearation Str. ance Libs. Index 22s Carded 97 97 98 102 100 92 100 92 101 102 103 117 103 124 94 98	ing test from quali Appearance ance Index Carded 97 102 92 92 92 92 92 94		Spin Spin Spin 61 142 142 142 142 142 142 142 142 142 14
The Fiber strength S A P & C Skein Appear—Income S A P & C S A P & C S A P & C P P P P P P P P P	S A P & C Skein Appear-In the str.	P& C Skein Appear-I ance str. Ibs. Index 22s Carded 22s Carded 6.3 98 112 6.1 97 97 97 6.3 105 102 92 5.4 102 92 5.5 108 98 102 92 5.5 108 98 98 98 5.5 108 98 98 98 9.5 5.5 108 98 98	P& C Skein Appear-I ance str. Ibs. Index 22s Carded 22s Carded 6.3 98 112 6.1 97 97 97 6.3 105 102 92 5.4 102 92 5.5 108 98 102 92 5.5 108 98 98 98 5.5 108 98 98 98 9.5 5.5 108 98 98	test test dex	test test dex	ty No. Yarn 19 20 29 29 29 29 29 29 2	

Based on a limited number of samples of modal quality Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Averages of fiber and processing tests from selected gin points in the United States through December 12, 1975 1/ (Continued)

Table 1. -- Cotton:

	SPY		No.	67 54	65	90 87	99 †2			m .	
		mb	No. No	8 6	9 9	10 9	9 7		0 0	Q	
	Imprfctns	card comb	o	20	19	21. 1	20 23 1	Yarn		0	
D = 21.1		compedc	Indx ed Yar	113	113	106	111	Combed	111	5	
Щост - Do	ona Ppe	carded c	Lbs. Lbs. Indx Indx Parn 22s Carded & Combed Yarn	105 107	102	16	101 104	5018		5	
	Yaı	compedc	Lbs. Carded	123 116	125	148	131 132		†9 †9	4(22s) 2(50s)	
G G	Strength	carded c	Lbs.	105	105	128 139	112	ර්		μ (22s) 2	
	Comber		Pct.	17.3 18.6	18.0	14.7 15.4	16.7 17.4	American Pima	17.1	0.5	
	P&C Waste		Pct.	8.5	8 0 8 0	7.2	8 8 0 8	Ameri	7.2	0.5	quality
		lint	Pct.	33.	3.8	0.0 12.0	3. 4. 4.		2.0	0.5	
	gth 1/8"	gage	G/tx	23	23.33	26	24 24		32	1	of modal
1	Stren	gage	Mpsi	8 8 8 5	88	92 95	89		102	8	samples
	Mike		Rdg.	4.0	0.4	3.7	4.0	N	3.9	0.0	of sam
7.5	n i f		Pet.	43 43	444	44	†† ††	Array	30	cu l	nber c
F	Length	1	In.	1.15	1.15	1.16	1.15		1.46	0.02	limited number
	Lots		No.	1 ⁴	99	99	28		2 ~		
	Staple group, Area, and	crop year		Long Staple: Southeast 1974 1975	South Central 1974 1975	West 1974 1975	U.S. Average 197 ⁴ 1975	Extra Long Staple:	West 1974 1975	Significant Difference <u>2</u> /	1/ Based on a

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples. based on a limited number of samples of modal quality ગેજા

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1975

1		Spin. Poten-	tial	NO NO		35	29	33	51	64	31	42	
			22sor t 27 tx	No		18	27 23	12	16	19	15	12	
	arns	Imprfect'ns	8s or 74 tx	No		42	35	33	45	51	36	59	
	arded Y	ance	22sor 27 tx	N N		100	90	110	110	100	100	110	
	ults - (Appearance Index	8s or 74 tx	No		110	120	130	120	120	120	120	
	Processing Test Results - Carded Yarns	ation	22s or 27 tx	Pct		4.9	5.4	5.5	6.8	6.3	5.8	0.9	
	ssing T	Elongation	8s or 74 tx	Pct		7.0	ENT 6.8 7.7	ENT 6.5	7.8	ENT 7.5	ENT 7.1	7.0	
	Proce	ngth	22s or 27 tx	Lbs		95 PERCENT	97 PERCENT 84 6. 100 7.	83 PERCENT 78 6.	75 PERCENT 312 108 7.	90 PERCENT 3 98 7.	75 PERCENT	75 PERCENT 9 95 7.0	
		Strength	8s or 74 tx	Lbs		287	9 278 316	270	312	313	273	289	
		P & C	Waste	Pct		8.11	7.31/	8.9	7.4	5.71	7.8⊥	6.8	
		Color Raw Stock	Yel	8		4	4 4	٣	m	6	4		
			Gra	No.		7	2 2	-	2	9	3	1	
		S.A.		Pct		4.9	3.0	2.9	4.1	3.8	4.3	3.0	
i	sults	Elon-	1/8"	Pet		RIPPER 31 1 6.3	RIPPER 32 9 6.1 2 6.0	YMASTER 18	RIPPER 31 1 6.2	YMASTER 909	YMASTER 18 0 6.4	YMASTER 18	
	Fiber Test Results	Fiber Strength	1/8" Gage	1		STRIP 21	STRIP 19 22	PAYMA 20	STRIP 21	PAYMA 23	PAYMA 20	PAYMA 21	
	Fiber	Stre	Zero	Mpsi		93	87 94	98	06	. 87	85	88	
		Mike		Rdg		3.1	3.8 2.8	3.7	3.2	3.0	3.1	4.3	
		tal raph	Unif	Pet		45	46 42	4 6	4	44	45	24	
		Digital Fibrograph	2.5% span	티티		0.88	0.85	0.86	96.0	0.93	0.85	0.88	
			Stple	32s	AREA	29	28	29	30	30	28	31	
	Area,	er	e		A	AS 42	32	41	42	45	45	41	
	Production Area,	Sample Number	No Name & Code		SOUTHWEST	NORTHWEST TEXAS HART 2 SLM LT SP 4	KRESS 1 MID LT SP 2 SLM LT SP	L00P 1 SLM	LOOP 1 SLM LT SP	LORENZO 1 SLM LT SP	PLAINVIEW 1 SLM LT SP	SIL VERTON 1 SLM	

1/ Cotton stuck to processing rolls

									- 7	-								
	Spin.	Poten- tial	외		14	55	20	53	45	09	50	20	84		72	72 73	52	
	ctins	50s or 12 tx	외		19	23	32	18	22	17	20	13	11		15	15	19	
Yarns	Imprfect'ns	22s or 5	1		21	28	41	22	2.7	19	29	16	=======================================		19	18	24	
Carded Ya	nce	50s or 8	01		80	70	09	80	70	80	70	100	80		80	90	80	
1	Appearance Index	22s or 50			100	06	80	100	100	110	06	110	120		100	110	100	
st Results	ion	50s or 2	Pct		4.2	6.4	4.1	4.1	3.9	4.4	1.4	3.6	3.5		5.5	4 v 8 4	4.7	
Processing Test	Elongation	22s or 27 tx	Pct		PERCENT 27 6.4	PERCENT 32 6.5	PERCENT 27 6.4	PERCENT 31 6.5	PERCENT 24 4.8	PERCENT 32 5.9	PERCENT 31 5.7	PERCENT 28 5.1	PERCENT 28 5.2		PERCENT 41 7.7	PERCENT 39 7.4 40 7.0	PERCENT 34 6.3	
Pro	Strength	22s or 50s or 27 tx 12 tx	sq		99 P	100 P 95 3	100 P 91 2	82 P 103 3	85 p	75 p	98 P	100 P 90 2	100 P		100 P 121 4	100 P 117 3 126 4	100 P	
	P & C	Waste	Pct		4.2	6.1	8.2	5.1	5.9	6.2	7.2	7.5	7.4		5.9	4. 8. 8.	5.8	
	or tock	Yel	일		6	m	m	2	æ	m	2	4	m		7	22	7	
	Color Raw Stock	Gra	일		7	-	2	2	4	2	~	v	2		7	7 1	7	
		Non- Lint	Pet		3 2.6	2.9	3 4.5	3.1	3.1	1 2.2	4.2	I 4•3	2.2		2.6	2.7	3.1	
lts	Elon-	gat'n 1/8"	Pct		TONE VILLE 213	ELTAPINE 16 22 7.9	TONEVILLE 603	ELTAPINE 16 23 7.8	201	KING III 6.5	201	KING II 5.5	201		ELTAPINE 16 24 7.9	ELTAPINE 16 24 7.5 23 7.7	TONEVILLE 213	
st Results	er gth		G/tex		STONE 22	DELTA 22	STONE 22	DEL TA	COKER 22	DI XIE 22	COKER 22	01X1E 22	COKER 23		DELTA 24	DELTA 24 23	STONE 22	
Fiber Test	Fiber	Zero	Mpsi		82	18	79	11	81	82	7.7	83	92		80	80 81	82	
1		Mike	Rdg		4.0	4.0	3.2	4.3	4.0	4.0	4.4	4.4	5.2		3.4	3.9 4.1	4.0	
	11 raph	Unif.	Pet		143	43	41	45	45	43	45	94	14		7,	44	43	,
	Digital Fibrograph		티		0.97	1.03	1.04	1.08	1.06	1.07	1.06	1.03	1.05		1.12	1.14	1.08	,
		Stple	328	AREA	33	34	33	34	33	34	34	34	34	AREA	35	35	34	
ea,	ы	Ω		AB	41	41	4 2	41	51	41	511/34	52	41	Ø	14	NCE 41 41	NCE 41	
on Ar	Number	Code			E.	L E	VILL	×	LE	RO	z	۵	LINA	RAL	œ	VIDE	PROVIDENCE 41	
Production Area, Classification	& Sample N	Grade Name & Code		AST	A VBR I	SVIL	LT	GOME	DVIL	T S BO	ANTOM	WICK LT S	CARO BY	CENT	A S E IME	PRO	PRO	
Prod Cla	Sam	No Nam		SOUTHEAST	ALABAMA GREENBRIER 3 SLM	HUNTSVILLE 3 SLM	MERIDIANVILLE 3 SLM LT SP 4	MONTGOMERY 2 SLM	MOUNDVILLE 3 LM	SCOTTSBORD 3 SLM	GEORGIA ALLENTOWN 3 LM	BOSTWICK 2 LM LT SP	NORTH CAROLINA SHELBY 2 SLM	SOUTH CENTRAL	ARKANSAS ALTHEIMER 3 SLM	LOUISIANA LAKE PROVIDENCE 2 SLM 41 3 SLM 41	LAKE 3 SLM	

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1975--(Continued)

	1							-	8 -						
	Spin.	Poten- tial	SI SI	52	59	65	53	58	58	69	52	35	09	51	59
	Imprfect'ns	50s or	외	20	15	25	31	15	56	56	14	11	14	11	11
Yarns	Imprf	22s or 27 tx	8	23	20	33	45	11	30	30	22	14	20	22	20
Carded Ys	ance	Os or	1	06	06	70	70	06	70	70	80	06	06	70	06
1	Appearance	22s or	8 8	100	110	80	80	120	100	80	100	110	110	100	110
Test Results	tion	50s or	1	4.	4.1	4.1	3.7	4.6	4.5	4.8	3.7	4.3	4.2	4.5	4.3
	Elongation	22s or 27 tx	اد	ENT 6.4	ENT 6.4	6.3	PERCENT 31 5.0	PERCENT 34 6.4	ENT 6.8	PERCENT 39 5.8	PERCENT 28 5.4	PERCENT 30 5.9	PERCENT 33 6.2	PERCENT 30 6.1	PERCENT 33 6.3
Processing	gth	50s or	Ips	PERCENT	PERCENT	PERCENT		PER(PERCENT	39) PER 28		33	30	33 33
	Strength	22s or 5	sq	100	100	100	100	104	100	100	100 6	95	104	75	95
	с «	Waste	Pct	5.9	4.5	6.5	6.7	6.3	7.4	5.9	7.8	6.1	5.3	6.1	9.9
	Color	Yel	No No	m	2	m	2	2	2	2	7	9	m	7	8
	Co	Gra	읾	4	2	m	М	2	2	2	4	æ	4	7	4
	δ. A.	Non- Lint	Pet	213	213	213	731N 3.2	2.7	3.5	2.9	13 3.8	3.4	11 2.6	603	AF 4.0
ts	Elon-	gat'n 1/8"	Pet		1LLE 21 6.3		ONEVILLE 73	ELTAPINE 16 22 7.8	INE 25 6.4	INE 55 6.3	TONEVILLE 213 21 5.6	DELTAPINE 16 23 6.1	KING 111 5.7		SMOOTHLEAF 5.9
st Results	er th	1/8" Gage	G/tex	STONEVILLE 21 6.	STONEVILLE 21 6.3	STONEVILLE 23 6.3	STONEV 23	DEL TAP 22	DELTAPINE 24 6	DELTAPINE 22 6	STONEV 21	DELTAP 23	DIXIE 22	STONEVILLE 23 7.	REX SN
Fiber Test	Fiber	Zero	Mpsi	83	81	82	91	83	83	83	87	84	85	79	83
		Mike	Rdg	3.8	3.9	4.3	4.6	4.4	4.1	3.8	4.3	4.5	4.3	3.8	3.9
	al memb	Unif.	Pet	43	74	45	74	45	4 4	44	44	45	45	44	4
	Digital	1	In In In	1.05	1.06	1.12	1.10	1.06	1.11	1.14	1.07	1.06	1.03	1.03	1.07
		Stple	32s Conti	34	34	35	35	35	35	35	35	34	34	34	34
Area,	er		ŒA(51	41	51	51	41	41	41	51	51	E 51	41	51
Production Area, Classification	& Sample Number	No Grade Name & Code	SOUTH CENTRAL AREA(Continued)	MISSISSIPPI COMO 3 LM	EDWARDS 3 SLM	GLENDORA 2 LM	GREENWOOD 3 LM	MACON 3 SLM	NITTA YUMA 3 SLM	SCOTT 2 SLM	TRIBBETT 3 LM	TENNESSEE BRADEN 3 LM	CEDAR GROVE 2 LM	ELORA 3 SLM	MILLINGTON 3 LM

- 9 **-**

			1						- 9 -							
		Spin. Potential	S		47	45	56		72	94	57	69	89	58	7.8	
	Tware Coot 1 vo	50s or	N N		54	50	22		20	16	21	15	18	33	23	
Yarns	Import	22s or	X SI		69	59	31		23	21	25	21	23	40	30	
Carded Ya	ance	Os or	7		09	9	70		02	80	80	80	70	09	70	
	Appearance	Index 22s or 5	No CX		09	9	06		06	90	100	100	06	70	90	
Test Results	+:	50s or	Pet Fet		4.0	4.7	4 • 3		5.2	3.7	4.1	4.4	4.8	4.3	5.3	
Processing Te	F] Ongstion	or 2	_		PERCENT* 29 6.8	PERCENT*	PERCENT 34 6.3		RCENT 6.4	PERCENT 29 5.6	PERCENT 37 5.7	PERCENT 44 5.8	PERCENT 43 6.0	PERCENT 38 5.8	ERCENT 8 6.4	
Pro	Strength	22s or 50s or	7		100 PI	100 PI	75 PEI		100 PERCENT 114 42 6•	100 PER 100 29	100 PI 107 3	100 PEI	100 PI	100 PER 109 38	100 PERCENT	
		P & C Waste	Pet		7.81	7.51/	9.01		5.0	6.1	5.7	6.4	5.9	7.8	5.3	
	Color	Raw Stock Gra Yel	SI SI		m	3	6		т	٣	6	2	2	2	2	
	00	Raw Gra	No.		-	-	2		0	-	0	-	-	2	0	
		Non- Lint	Pct		4.5	4.1	5 . 8		2.4	213	2.2	2.8	2.8	2.9	2.1	
ılts	-	gat'n 1/8"	Pct		312	5110	6.5		DELTAPINE 61 24 7.4		DELTAPINE 16 24 6.9	5-8	5.1-2	\$J-2 5•7	5-5	
est Results	Fiber	1/8"	G/tex		COKER 22	COKER 22	DUNN 118 23		DEL TA	STONEVILLE 23 5.0	DELTA 24	AC AL A	ACALA 26	ACALA 25	ACALA 27	
Fiber Te	Fi	Strength Zero 1/	Mpsi		06	81	83		18	89	84	95	92	96	93	
		Mike	Rdg		2.9	2.7	2.9		4.5	5.1	4.8	4.5	4.0	2.8	3.5	
	al	unif.	Pct		38	39	43		45	44	45	94	45	40	45	
	Digital	Fibrograph 2.5% Uni	티		1.05	1.03	1.02		1.14	1.08	1.14	1.12	1.12	1.03	1.13	
		Stple	32s	AREA	33	33	32	AREA	36	35	36	36	35	34	36	
Area,		Jac L	2	⋖	(AS	14	45	⋖	31	31	31	41	41	M 41	A. 04	
Production Area,	CLASSILLER & &	No Grade	So Something the second	SOUTHWEST	NORTHWEST TEXAS LUBBOCK 2 SLM	LUBBOCK 2 SLM	LUBBOCK 1 SLM LT SP	WEST	ARIZONA CASA GRANDE 2 MID	GILA BEND 2 MID	MARICOPA 1 MID	CALIFORNIA ARVIN 3 SLM	BAKERSFIELD 3 SLM	BUTTONWILLOW 3 SLM	CANTUA CREEK 2 SLM PLUS	

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1975--(Continued)

* 100 percent selected for tests, less than 100 percent in the area 1/ Cotton stuck to processing rolls

1	1		1						- 10 -						
	Spin.		8		99	19	69	69	76	75	81	11	70	64	
	Imprfect'ns	50s or	N N		10	11	15	14	12	15	13	16	24	25	
Yarns	Impr	22s or 50s c	N N		11	15	22	18	14	23	15	22	28	38	
Carded Y	ance	50s or	No		06	06	0,2	70	06	80	80	70	9	80	
1	Appearance Index	22s or 27 tx	No		110	100	100	06	100	100	110	100	06	100	
Test Results	Elongation	50s or	Pet		6.4	5.1	4.6	6.4	4.5	8.4	5.0	5.0	4.4	3.7	
Processing T	Elong	. 22s or 27 tx	Pet		ENT 6.2	ENT 6.3	ENT 6.0	ENT 6.0	PERCENT *	ENT 6.3	ENT 5.9	ENT 6.4	ENT 6.3	.ENT 5.1	
Proce	Strength	50s or 12 tx	Lbs		PERCENT	PERCENT 51 6.	PERCENT	PERCENT	PER(PERCENT	PERCENT	PERCENT	PERCENT	PERC 32	
	Stre	22s or 50s or 27 tx 12 tx			90	97 138	95	100	100	130	99	85 126	100 F	100 PERCENT 104 32 5.1	
	P & C	Waste	Pct		9.9	5.2	5.3	5.6	5.1	9.9	6.3	5.4	5.5	6•9	
	Color Raw Stock	Yel	No		ю	2	м	М	2	2	2	2	2	8	
		Gra	No		-	0	7	-	-		0	-	-	-	
	<u> </u>		Pct		2.7	2.2	1.9	2.7	2.5	2.3	2.0	2.4	2.6	2.1	
lts	Elon-	gat.n 1/8"	Pct		53-2	5.4	SJ-2 5•6	5.8	5.5	SJ-3 5.9	5.9	5.9	5.9	INE 61 5.7	
Test Results	Fiber rength	1/8" Gage	G/tex		ACALA 26	ACALA 27	ACALA 3	ACALA 27	ACALA 26	ACALA 27	ACALA 27	ACALA 28	ACALA 26	DELTAPINE 61 25 5.7	
Fiber Te	Fiber Strength	Zero Gage	Mpsi		89	96	95	06	86	66	16	93	91	46	
			Rdg		4.5	3.8	4 • 4	4•3	4.2	4.3	4.0	4.1	3.7	5.5	
	Digital Fibrograph		Pet		46	46	45	94	45	45	94	46	44	45	
	Digital Fibrogra	CI W	r <mark> </mark>		1.12	1.16	1.13	1.13	1.12	1.09	1.14	1.13	1.11	1.06	
		Stple	32s ed)	(per	35	36	35	36	36	35	36	35	35	34	
Area ation	mber	ode	ntinu	ontin	41	40	41	40	40	41	≻	41	41	31	
Production Area, Classification	& Sample Number	No Grade Nane & Code	3 WEST AREA(Continued)	CALIFORNIA (Continued)	CORCORAN 3 SLM	DOS PALOS 2 SLM PLUS	HANFORD 3 SLM	HURON 2 SLM PLUS	LEMOORE 2 SLM PLUS	LOST HILLS 3 SLM	TRANQUILITY 2 SLM PLUS	VISALIA 2 SLM	WASCO 3 SLM	WESTMORLAND 1 MID	

* 100 percent selected for tests, less than 100 percent in the area

Table μ --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1975

	Spin. Poten-	tial	N9		53	51	84	59		53
	t ns	50s or 12 tx	No		22	41	14	14		12 6
rns	Imprfect'ns	22s or 50s or 27 tx 12 tx	No		33	19	17	20		15
rded Ya	$\overline{}$		No I		70	90	90	90		90
Processing Test Results - Carded Yarns	Appearance Index	22s or 50s or 27 tx 12 tx	No No		06	100	110	100		120
st Resul	-		Pct		4.0	3.4	3.6	4.5		3.5
sing Tes	Elongation		Pct		ENT 5.0	4.7 5.9	ENT 4.5	ENT 5 • 3		5.0 5.8
roces	ų	50s or 22s or 12 tx 27 tx	I.bs		98 PERCENT 29 5.	PERCENT 25 4. 39 5.	25 4.	94 5.		PERCENT 27 5. 41 5.
	Strength	22s or 50s or 27 tx 12 tx	Lbs		98	100 85 113	100 79 105	95 100 125		90 88 116
		Comber	Pet		6	10.6	10.7	8.9		9.9
	1	Yel	요		m *	4	m *	m #		e *
	Color Raw Stock	Gra	용]		4	4	ю	m		6
	S.A. Non-	Lint	Pet		3.6	3.3	4.0	3.4		3.2
ts	Elon-	1/8"	Pet		310	310	310	310		310
Fiber Test Results	er igth	1/8"	G/tex		COKER 310 24 6	COKER 23	COKER 23	COKER 25		COKER 23
iber Te	Fiber	Zero	Mpsi		83	8	85	88		87
E		Mike	Rdg		4.1	4.2	4.4	4.6		4.2
	11 ph	Unif.	Pct		41	43	43	45		45
	Digital Fibrograph	2.5%	ul l		1.10	1.06	1.08	1.13		1.05
	1.5	Stple	32s	AREA	34	35	34	35	AREA	33
rea,	er			A	52	45	45	51 51		15
Production Area,	Sample Number	No Grade Name & Code		SOUTHEAST	ALABAMA ORRVILLE 3 LM LT SP	GEORGIA COMER I SLM LT SP	MADISON 2 SLM LT SP	NORTH CAROLINA SCOTLAND NECK 3 LM 5	SOUTH CENTRAL	TENNESSEE TRENTON 3 LM

* Comber waste and combed yarn data 1/ Insufficient cotton to run comber tests

- 12 -

in. en-al Fiber Test Besilt Production Area,

Table \$\psi\$ --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1975--(Continued)

	Spin	tial	용		81	46	06	89
	t'ns	50s or 12 tx	δ		19	42 18	27	17
arns	Imprfect'ns	22s or 27 tx	No 		18	49	31	20 17 13 10
rded Y		0s or 2 tx	요		80 100	09	09	02
lts - Ca	Appearance Index	22s or 27 tx	N N		100	100	100	90
Processing Test Results - Carded Yarns	tion	50s or 2	Pet			5.0	5.0	5.2
sing Te	Elongation	22s or 27 tx	Pet		ENT 6.0 6.1	ENT 6.1 6.4	ENT 6.3 6.8	100 PERCENT 1/ 52 6.2 60 6.5
Proces	ų,	0s or 2	Lbs		95 PERCENT 6 51 6.0 5 59 6.1	97 PERCENT 3 53 6•	85 PERCENT 6 50 6.3 6 75 6.8	0 PERCE 52 60
7	Strength	Comber 22s or 50s or 22s or 50s or 22s or 50s or 22s or 50s or Waste 27 tx 12 tx 27 tx 12 tx 27 tx 12 tx 27 tx 12 tx	Lbs		95 136 155	97 138 160	85 136 156	139 156
	P&C and	Comber Waste	Pct		7.6	7.1	8.6 16.8	2 7.3
	S. K	Yel,	No		m #	m #	*	~ *
	Color Raw Sto	Gra	No		1	0	0	0
	S.A. Non-	Lint	Pet		2.4	2.2	2.3	2.4
ts	Elon-		Pet		ACALA 1517-70 28 5.7	1517-V 5.5	ACALA 1517-70 26 6.1	ACALA 1517-C 25 6.1
Fiber Test Results	oer ngth	1/8" Gage	G/tex		ACALA 28	ACALA 1517-V 30 5.5	ACALA 26	ACALA 25
Fiber Te	Fiber Strength	Zero Gage	Mpsi		63	16	16	93
		Mike	Rdg		3.7	3.2	2.9	3.1
	al aph	Unif.	Pct		45	77	4	4
	Digital Fibrograph	2.5% span	되		31 37 1.16	36 1.16	36 1.15	31 37 1.17
		Stple	32s	AREA	37	36	36	37
ion.	er		·	Ø	31	31	31	31
Classification	& Sample Number	No Grade Name & Code		WEST	ARIZONA DUNCAN 1 MID	NEW MEXICO ARTESIA 2 MID	BERIND 2 MID	WEST TEXAS TORNILLO 2 MID

 $\underline{1}/$ 100 percent selected for tests, less than 100 percent in the area \star Comber Waste and Combed Yarn Data

Table 5 -- Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1975

		ŗ					
	ct'ns	80s on 7 tx	읽		2	-	2
	Imprfect'ns	50s or 80s or 50s or 80s or 50s or 80s or 50s or 80s or 12 tx 7 tx 12 tx 7 tx 12 tx 7 tx 12 tx 7 tx	외		-	2	2
arns	Appearance Index	80s or 7 tx	외		120	120	120
mbed Y	Appearar Index	50s or 12 tx	위		5.0 120	110	4.4 110
ts - Cc	ation	80s or 7 tx	Ret			4.8	
t Resul	Elongation	80s or 50s or 80s or 50s or 7 tx 12 tx 7 tx 12 tx	Pet		5.6	5.7	5.2
Processing Test Results - Combed Yarns	Strength	80s or 7 tx	sqi		ENT 34	ENT 36	ENT 34
Proces	Stre	50s or 12 tx	Ibs		93 PERCENT 0 63	81 PERCENT 1 66	99 PERCENT 9 64
	Color Raw Stock P & C Comber	Waste	Pet		93 PER 18.0 63	81 17.1	99 PER 17.9 64
	Р 8 С	Waste	Pct		7.4	7.3	8 • 1
	Lor Stock	Yel	SI SI		5	2	r.
	Color Raw Sto	Gra	외		4	4	w
		Lint	Pet		1.9	2.1	2.9
ts	Elon-	gat'n 1/8"	Pet		8.0	4 7.4	7.3
Fiber Test Results	er gth	1/8" Gage	G/tex		PIMA S-4	PIMA S-4	PIMA S-4
iber Te	Fiber Strength	Zero Gage	Mpsi		103	101	102
E4		Mike	Rdg		4.1	3 ° 8	3 8
	ay th	cv	Pet		29	30	31
	Array Length	UQL	티		1.50	1.47	1.45
		Stple	32s	AREA	4		44
Area	ber	de			3 44	44	
Production Area, Classification	& Sample Number	Grade Name & Code			EU.	CES	N M
oduct	ample	Gr			₹ a	CRU	EXA
A D	ŭ			ST	ARIZONA BOWIE 1	NEW MEXICO LAS CRUCES	WEST TEXAS EL PASO 1
I		No		WEST	AR	Z ~	M I

